CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.11/KGR/CSR-05/031a/CEMENT/2016-17 Date: 07.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. K. Gopi Reddy,** No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.
*NAME OF THE WORK	:	Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.
*REFERENCE	:	BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	05.05.2016
PERIOD OF TESTING	:	05.05.2016 to 07.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	485 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.11/KGR/CSR-05/031a/SAND-Gradation/2016-17 : 07.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Gopi Reddy,**
No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.

*** Name of Work** : Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 05.05.2016

Date of Testing : 07.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	79.00	60-95	75-100	85-100	95-100
1.18	57.00	30-70	55-90	75-100	90-100
600 Micron	28.50	15-34	35-59	60-79	80-100
300 Micron	15.00	5-20	8-30	12-40	15-50
150 Micron	6.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.11/KGR/CSR-05/031a/AGG/GR/2016-17 : 07.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Gopi Reddy,**
No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.

*** Name of Work** : Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 05.05.2016

Date of Testing : 07.05.2016

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.20	95-100	85-100
20	38.35	30-70	0-20
10	14.85	10-35	0-5
4.75	4.35	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.11/KGR/STEEL/2016-17 07.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. K. Gopi Reddy,** No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.
Name of the Work	:	Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016
Date of Test	:	07.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.11/KGR/CSR-05/031a/CC Solid Block/2016-17 : 07.05.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Gopi Reddy,**
No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.

*** Name of the Work** : Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.

Reference : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

Sample Received on : 05.05.2016

Date of Testing : 07.05.2016

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.26	259.6	3.25	
2	Block 2	36.35	260.4	3.26	
3	Block 3	34.21	262.3	3.28	
4	Block 4	35.29	263.4	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
5	Block 5	34.29	260.5	3.26	
6	Block 6	35.24	262.2	3.28	
7	Block 7	36.35	263.5	3.29	
8	Block 8	34.25	264.1	3.30	

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Job No.: CTCE/BBMP/W.No.11/KGR/CSR-05/031a/Kerb stone/2016-17 07.05.2016

TEST REPORT ON CONCRETE CORE (KERB STONE)

* Name of Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Mr. K. Gopi Reddy,** No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.
* Name of work	:	Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.
Reference	:	BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Kerb Stone
Sample Received on	:	05.05.2016
Date of Testing	:	07.05.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.384	2507.30	1.56	0.955	25.00	12.73	13.75	13.13	16.42
2	50.00	79.00	0.390	2514.25	1.58	0.960	26.00	13.24	14.30	13.73	17.16
3	50.00	80.00	0.399	2540.11	1.60	0.965	26.80	13.65	14.74	14.23	17.78

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Job No.: CTCE/BBMP/W.No.11/KGR/CSR-05/031a/CUBE/2016-17 17.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Gopi Reddy,**
No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.

*** Name of the work** : Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 7th day

Sample Received on : 17.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2016	17.05.2016	8.098	256.3	11.39
2	10.05.2016	17.05.2016	8.190	265.3	11.79
3	10.05.2016	17.05.2016	8.225	278.9	12.40

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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*** Agency** : **Mr. K. Gopi Reddy,**
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*** Name of the work** : Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 7th day

Sample Received on : 17.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2016	17.05.2016	8.289	265.5	11.80
2	10.05.2016	17.05.2016	8.337	275.3	12.24
3	10.05.2016	17.05.2016	8.415	280.3	12.46

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Gopi Reddy,**
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*** Reference** : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 7th day

Sample Received on : 17.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2016	17.05.2016	8.098	255.9	11.37
2	10.05.2016	17.05.2016	8.198	268.7	11.94
3	10.05.2016	17.05.2016	8.235	275.6	12.25

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Job No.: CTCE/BBMP/W.No.11/KGR/CSR-05/031a/CUBE/2016-17 20.05.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Gopi Reddy,**
No.03, 1st Cross, 1st Main, Ramachandrappa Layout, Veeranna Palya, Arabic college Post, Bangalore - 560 045.

*** Name of the work** : Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 20.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.05.2016	20.05.2016	8.195	359.6	15.98
2	13.05.2016	20.05.2016	8.265	365.3	16.24
3	13.05.2016	20.05.2016	8.314	372.3	16.55

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. K. Gopi Reddy,**
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*** Name of the work** : Construction of culverts and providing covering slab to existing drain and kerb stone at Navodaya school in ward No.11 (Kuvempunagara), BBMP, Bangalore.

*** Reference** : BBMP/EE/BTP/WO/29/2016-17 Dated: 05.05.2016

*** Sample ID** : Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 20.05.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	13.05.2016	20.05.2016	8.227	360.5	16.02
2	13.05.2016	20.05.2016	8.335	372.5	16.56
3	13.05.2016	20.05.2016	8.475	380.2	16.90

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